

Exhibit B
'tzlas01.log'

```
SQL> @tzlas01
SQL>
SQL> CONNECT LBACSYS/LBACSYS
Connected.
SQL>
SQL> -- Create two SA policies
SQL> EXECUTE SA_SYSDBA.CREATE_POLICY('SA1','SA1_COL','ALL_CONTROL');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_SYSDBA.CREATE_POLICY('SA2','SA2_COL','NO_CONTROL');
PL/SQL procedure successfully completed.

SQL>
SQL> -- Initialize PUBLIC labels for them
SQL> EXECUTE SA_LABELS.CREATE_LEVEL('SA1',0,'PUBLIC','PUBLIC Level');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('SA2',0,'PUBLIC','PUBLIC Level');
PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa1',10,'public');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sa2',10,'public');
BEGIN SA_LABEL_ADMIN.CREATE_LABEL('sa2',10,'public'); END;
*
ERROR at line 1:
ORA-12432: LBAC error: Label with the given label_tag: 10 already exists
ORA-06512: at "LBACSYS.LBAC_STANDARD", line 0
ORA-06512: at "LBACSYS.LBAC_LABEL_ADMIN", line 57
ORA-06512: at line 1

SQL>
SQL> -- Setup some labels for policy SA1
SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',10,'c','confidential');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',20,'s','SECRET');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_LEVEL('sa1',30,'ts','Top Secret');
PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sa1', 5, 'A', 'ALPHA');
```

```
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_COMPARTMENT ('sal', 10, 'b', 'beta');
PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sal', 5, 'G1','group 1');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sal', 51, 'G2','group 2','G1');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABELS.CREATE_GROUP ('sal', 52, 'G3','group 3','G1');

PL/SQL procedure successfully completed.

SQL>
SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal', 200,'c');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal', 225,'c:b,a');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal',210,'c:a');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal',205,'c::g2');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal', 300,'s');

PL/SQL procedure successfully completed.

SQL> EXECUTE SA_LABEL_ADMIN.CREATE_LABEL('sal', 310,'s:a');

PL/SQL procedure successfully completed.

SQL>
SQL> -- Generate some labels
SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sal','c:a:g1')) FROM DUAL;
-----  
C:A:G1

1 row selected.

SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sal','s:a,b')) FROM DUAL;
```

```
LABEL_TO_CHAR(TO_SA_LABEL('SA1','S:A,B'))
```

```
-----  
-  
S:A,B
```

```
1 row selected.
```

```
SQL> SELECT LABEL_TO_CHAR(TO_SA_LABEL('sa1','public:a:g1')) FROM DUAL;
```

```
LABEL_TO_CHAR(TO_SA_LABEL('SA1','PUBLIC:A:G1'))
```

```
-----  
-  
PUBLIC:A:G1
```

```
1 row selected.
```

```
SQL>
```

```
SQL> COL POLICY_NAME FORMAT A15
```

```
SQL> COL LABEL FORMAT A20
```

```
SQL> SELECT * FROM DBA_SA_LABELS;
```

| POLICY_NAME | LABEL | LABEL_TAG | LABEL_TYPE |
|-------------|-------------|------------|-----------------|
| SA1 | PUBLIC | 10 | USER LABEL |
| SA1 | C | 200 | USER/DATA LABEL |
| SA1 | C::G2 | 205 | USER/DATA LABEL |
| SA1 | C:A | 210 | USER/DATA LABEL |
| SA1 | C:A,B | 225 | USER/DATA LABEL |
| SA1 | S | 300 | USER/DATA LABEL |
| SA1 | S:A | 310 | USER/DATA LABEL |
| SA1 | C:A:G1 | 1000000000 | USER/DATA LABEL |
| SA1 | S:A,B | 1000000001 | USER/DATA LABEL |
| SA1 | PUBLIC:A:G1 | 1000000002 | USER/DATA LABEL |

```
10 rows selected.
```

```
SQL>
```

```
SQL> col labelvalue format a20
```

```
SQL> col policy_name format a10
```

```
SQL> SELECT * from dba_sa_labels;
```

| POLICY_NAM | LABEL | LABEL_TAG | LABEL_TYPE |
|------------|-------------|------------|-----------------|
| SA1 | PUBLIC | 10 | USER LABEL |
| SA1 | C | 200 | USER/DATA LABEL |
| SA1 | C::G2 | 205 | USER/DATA LABEL |
| SA1 | C:A | 210 | USER/DATA LABEL |
| SA1 | C:A,B | 225 | USER/DATA LABEL |
| SA1 | S | 300 | USER/DATA LABEL |
| SA1 | S:A | 310 | USER/DATA LABEL |
| SA1 | C:A:G1 | 1000000000 | USER/DATA LABEL |
| SA1 | S:A,B | 1000000001 | USER/DATA LABEL |
| SA1 | PUBLIC:A:G1 | 1000000002 | USER/DATA LABEL |

```
10 rows selected.
```

```
SQL>
```

```

SQL> -- Set user labels
SQL> EXECUTE SA_USER_ADMIN.SET_LEVELS('sa1','scott','s','c');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_USER_ADMIN.SET_COMPARTMENTS('sa1','scott','a,b');
PL/SQL procedure successfully completed.

SQL> EXECUTE SA_USER_ADMIN.SET_GROUPS('sa1','scott','G1');
PL/SQL procedure successfully completed.

SQL> SELECT * FROM dba_sa_user_levels ORDER BY policy_name, user_name;
POLICY_NAM USER_NAME MAX_LEVEL
----- -----
MIN_LEVEL DEF_LEVEL
----- -----
ROW_LEVEL
----- -----
SA1 SCOTT S
C S
S

1 row selected.

SQL> SELECT * FROM dba_sa_user_compartments ORDER BY policy_name, user_name;
POLICY_NAM USER_NAME COMP RW_AC
D
----- -----
R
-
SA1 SCOTT A WRITE
Y
Y

SA1 SCOTT B WRITE
Y
Y

2 rows selected.

SQL> SELECT * fROM dba_sa_user_groups ORDER BY policy_name, user_name;
POLICY_NAM USER_NAME GRP RW_AC
D
----- -----
R
-
SA1 SCOTT G1 WRITE
Y

```

Y

1 row selected.

```
SQL>
SQL> -- Look at session labels
SQL> CONNECT scott/tiger
Connected.
SQL>
SQL> create or replace FUNCTION get_list (pol IN VARCHAR2)
 2  RETURN VARCHAR2 IS
 3    test_list lbacsys.lbac_label_list;
 4  begin
 5    test_list:=lbac_session.effective_labels(pol);
 6    RETURN label_list_to_named_char(test_list,'effective');
 7  END;
 8 /
```

Function created.

```
SQL>
SQL> select get_list('sa1') from dual;
```

GET_LIST('SA1')

```
-----
-
MAX READ LABEL='S:A,B:G1,G2,G3',MAX WRITE LABEL='S:A,B:G1,G2,G3',MIN WRITE
LABEL
='C',READ LABEL='S:A,B:G1,G2,G3',WRITE LABEL='S:A,B:G1,G2,G3',ROW
LABEL='S:A,B:G
1,G2,G3'
```

1 row selected.

```
SQL> select get_list('sa2') from dual;
```

GET_LIST('SA2')

1 row selected.

```
SQL>
SQL> SQL>
```